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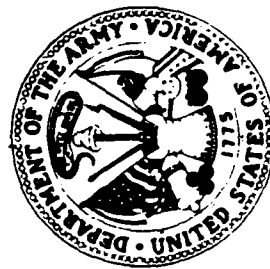
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DEPARTMENT OF THE ARMY

JUSTIFICATION OF ESTIMATES FOR AMENDED FY 1990/FY 1991 BIENNIAL BUDGET

SUBMITTED TO CONGRESS

JANUARY 1989



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PROCUREMENT OF WTCV, ARMY PROGRAMS

AIRCRAFT	MISSILES
AMMUNITION	WEAPONS & TRACKED COMBAT VEHICLES
	OTHER

DEPARTMENT OF THE ARMY
PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

JUSTIFICATION OF ESTIMATES FOR FISCAL YEARS 1990/1991 BIENNIAL BUDGET

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PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 1

Budget Appendix Extract

Appropriation Language
Program and Financing Schedule
Object Classification Schedule

APPROPRIATION LANGUAGE

For construction, procurement, production, modification, of weapons and tracked combat vehicles, equipment, including ordnance, spare parts, and accessories therefor; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes; \$2,745,000 in fiscal year 1990 to remain available for obligation until September 30, 1992, and \$3,002,100,000 in fiscal year 1991 to remain available for obligation until September 30, 1993, of which \$1,484,000 in fiscal year 1990 and \$442,000 in fiscal year 1991 shall be made available only for the Army National Guard and Army Reserve.

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Procurement of WATCV, Army
Program and Financing (in Thousands of dollars) SUMMARY

Identification code	21-2033-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)			
		1988 actual	1989 est.	1990 est.	1991 est.
Program by activities:					
Direct program:					
00.0101	Tracked combat vehicles	2,962,958	2,652,614	2,583,803	2,843,749
00.0201	Weapons and other combat vehicles	145,913	167,739	161,197	158,351
00.9101	Total direct program	3,108,871	2,820,353	2,745,000	3,002,100
01.0101	Reimbursable program	356,785	591,700	687,100	687,100
10.0001	Total	3,465,656	3,412,053	3,432,100	3,689,200
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)	-228,716	-442,600	-595,000	-595,000
13.0001	Trust funds(-)	-120,822	-149,100	-92,100	-92,100
14.0001	Non-Federal sources(-)	-7,227			
17.0001	Recovery of prior year obligations				
21.4002	Unobligated balance available, start of year:				
21.4003	For completion of prior year budget plans	-173,400	-149,100		
21.4007	Available to finance new budget plans	-148,733			
21.4007	Reprogramming from/to prior year budget plans	120,693	149,100		
22.4001	Unobligated balance transferred to other accounts				
22.4001	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans	149,100			
24.4003	Available to finance subsequent year budget plans	10,140			
25.0001	Unobligated balance lapsing				
39.0001	Budget authority	3,066,671	2,820,353	2,745,000	3,002,100
Budget authority:					
40.0001	Appropriation	3,207,187	2,830,921	2,745,000	3,002,100
40.0004	Reduction pursuant to P.L. 100-463		-568		
40.0017	Appropriation rescinded (unobligated balance)	-113,700			
41.0001	Transferred to other accounts(-)	-26,816	-10,000		
43.0001	Appropriation (adjusted)	3,066,671	2,820,353	2,745,000	3,002,100
Relation of obligations to outlays:					
71.0001	Obligations incurred, net				
72.4001	Obligated balance, start of year				
74.4001	Obligated balance, end of year				
77.0001	Adjustments in expired accounts				
78.0001	Adjustments in unexpired accounts				
90.0001	Outlays				

Procurement of WATCV Army
Program and Financing (in Thousands of dollars) SUMMARY

Identification code		21-2033-0-1-051	Obligations			
			1988 actual	1989 est.	1990 est.	1991 est.
Program by activities:						
Direct program:						
00.0101	Tracked combat vehicles		2,961,398	2,405,510	2,637,453	2,775,228
00.0201	Weapons and other combat vehicles		184,079	185,105	143,720	160,191
00.0101	Total direct program		3,145,477	2,590,615	2,781,173	2,935,419
01.0101	Reimbursable program		282,455	718,497	687,100	687,100
10.0001	Total		3,427,932	3,309,112	3,468,273	3,622,519
Financing:						
Offsetting collections from:						
11.0001	Federal funds(-)		-228,400	-442,600	-595,000	-595,000
13.0001	Trust funds(-)		-119,904	-149,100	-92,100	-92,100
14.0001	Non-Federal sources(-)		-6,930			
17.0001	Recovery of prior year obligations		-215,057			
21.4002	Unobligated balance available, start of year:		-1,098,205	-1,200,703	-1,303,644	-1,267,471
21.4003	For completion of prior year budget plans		-173,400	-149,100		
21.4007	Available to finance new budget plans		120,693	149,100		
22.4001	Reprogramming from/to prior year budget plans					
24.4002	Unobligated balance transferred to other accounts		1,200,703	1,303,644	1,267,471	1,334,152
24.4003	Unobligated balance available, end of year:		149,100			
25.0001	For completion of prior year budget plans		10,140			
39.0001	Available to finance subsequent year budget plans					
	Unobligated balance lapsing					
	Budget authority		3,066,671	2,820,353	2,745,000	3,002,100
Budget authority:						
40.0001	Appropriation		3,207,187	2,830,921	2,745,000	3,002,100
40.0004	Reduction pursuant to P.L. 100-463			-568		
40.0017	Appropriation rescinded (unobligated balance)		-113,700			
41.0001	Transferred to other accounts(-)		-26,816	-10,000		
43.0001	Appropriation (adjusted)		3,066,671	2,820,353	2,745,000	3,002,100
Relation of obligations to outlays:						
71.0001	Obligations incurred, net		3,072,698	2,717,412	2,781,173	2,935,419
72.4001	Obligated balance, start of year		6,100,787	5,091,710	4,632,122	4,502,695
74.4001	Obligated balance, end of year		-5,091,710	-4,632,122	-4,502,695	-4,673,614
77.0001	Adjustments in expired accounts		12,003			
78.0001	Adjustments in unexpired accounts		-215,057			
90.0001	Outlays		3,878,719	3,177,000	2,910,600	2,764,500

Procurement of W&TCV, Army
Object Classification (in Thousands of dollars) SUMMARY

Identification code	21-2033-0-1-051	1988 actual	1989 est.	1990 est.	1991 est.
Direct obligations:					
Other services:					
125.004		633,876	644,249	580,237	624,284
126.001	Supplies and materials	436,734	410,004	369,267	397,298
131.001	Equipment	2,074,867	1,536,362	1,831,669	1,913,537
199.001	Total Direct obligations	3,145,477	2,590,615	2,781,173	2,935,419
Reimbursable obligations:					
Other services:					
225.004		56,920	71,080	71,080	71,080
226.001	Supplies and materials	39,218	45,220	45,220	45,220
231.001	Equipment	186,317	602,217	570,820	570,820
299.001	Total Reimbursable obligations	282,455	718,497	687,100	687,100
999.901	Total obligations	3,427,932	3,309,112	3,468,273	3,622,519

Procurement of W&TCV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1986

Identification code	21-2033-0-1-05L	Budget Plan (amounts for PROCUREMENT actions programmed)		
		1988 actual	1989 est.	1990 est. 1991 est.
Program by activities:				
Direct program:				
00.0101	Tracked combat vehicles			
00.0201	Weapons and other combat vehicles			
00.9101	Total direct program			
01.0101	Reimbursable program			
10.0001	Total			
Financing:				
Offsetting collections from:				
11.0001	Federal funds(-)			
13.0001	Trust funds(-)			
14.0001	Non-Federal sources(-)			
17.0001	Recovery of prior year obligations			
21.4002	Unobligated balance available, start of year:			
21.4003	For completion of prior year budget plans			
21.4007	Available to finance new budget plans			
22.4001	Reprogramming from/to prior year budget plans			
25.0001	Unobligated balance transferred to other accounts			
	Unobligated balance lapsing			
40.0017	Budget authority (Appropriation rescinded) (
		-49,400	-72,733	70,293
		10,140		
		-41,700		

Procurement of WATCV Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1988

Identification code	21-2033-0-1-051, .	Obligations			
		1988 actual	1989 est.	1990 est.	1991 est.
Program by activities:					
Direct program:					
00.0101	Tracked combat vehicles	267,694			
00.0201	Weapons and other combat vehicles	22,967			
00.9101	Total direct program	290,661			
01.0101	Reimbursable program	14,945			
10.0001	Total	305,606			
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)	256			
13.0001	Trust funds(-)	398			
14.0001	Non-Federal sources(-)	1			
17.0001	Recovery of prior year obligations	-99,428			
21.4002	Unobligated balance available, start of year:				
21.4003	For completion of prior year budget plans	-279,585			
21.4007	Available to finance new budget plans	-49,400			
22.4001	Reprogramming from/to prior year budget plans				
22.4001	Unobligated balance transferred to other accounts	70,293			
25.0001	Unobligated balance lapsing	10,140			
40.0017	Budget authority (Appropriation rescinded) (-41,700			

Procurement of W&ICV, Army			
Program and Financing (in Thousands of dollars) FISCAL YEAR 1987			
Budget Plan (amounts for PROCUREMENT actions programmed)			
Identification code	21-2033-0-1-05	1988 actual	1989 est. 1990 est. 1991 est.
Program by activities:			
Direct program:			
00.0101	Tracked combat vehicles		
00.0201	Weapons and other combat vehicles		
00.9101	Total direct program		
01.0101	Reimbursable program		
10.0001	Total		
Financing:			
Offsetting collections from:			
11.0001	Federal funds(-)		
13.0001	Trust funds(-)		
14.0001	Non-Federal sources(-)		
17.0001	Recovery of prior year obligations		
21.4002	Unobligated balance available, start of year:		
21.4003	For completion of prior year budget plans		
21.4007	Available to finance new budget plans		
22.4001	Reprogramming from/to prior year budget plans		
24.4001	Unobligated balance transferred to other accounts		
24.4002	Unobligated balance available, end of year:		
24.4003	For completion of prior year budget plans		
40.0017	Available to finance subsequent year budget plans		
40.0017	Budget authority (Appropriation rescinded) (

Procurement of W&ICV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1987

Identification code	21-2033-0-1-051	1988 actual	1989 est.	1990 est.	1991 est.
Program by activities:					
Direct program:					
00.0101	Tracked combat vehicles	505,127	229,828		
00.0201	Weapons and other combat vehicles	33,381	51,515		
00.9101	Total direct program	538,508	281,343		
01.0101	Reimbursable program	23,505	14,037		
10.0001	Total	562,013	295,380		
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)	60			
13.0001	Trust funds(-)	520			
14.0001	Non-federal sources(-)	296			
17.0001	Recovery of prior year obligations	-115,629			
21.4002	Unobligated balance available, start of year:				
21.4003	For completion of prior year budget plans				
21.4007	Available to finance new budget plans				
22.4001	Reprogramming from/to prior year budget plans				
22.4001	Unobligated balance transferred to other accounts				
24.4002	Unobligated balance available, end of year:				
24.4003	For completion of prior year budget plans				
24.4003	Available to finance subsequent year budget plans				
40.0017	Budget authority (Appropriation rescinded) (
		-72,000			

Procurement of WATCV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1988

Identification code	21-2033-0-1-051	Budget Plan (amounts for PROCUREMENT actions programmed)		
		1988 actual	1989 est.	1990 est.
Program by activities:				
Direct program:				
00.0101	Tracked combat vehicles	2,962,958		
00.0201	Weapons and other combat vehicles	145,913		
00.9101	Total direct program	3,108,871		
01.0101	Reimbursable program	356,765		
10.0001	Total	3,465,636		
Financing:				
Offsetting collections from:				
11.0001	Federal funds(-)	-228,716		
13.0001	Trust funds(-)	-120,822		
14.0001	Non-Federal sources(-)	-7,227		
21.4002	Unobligated balance available, start of year:			
21.4003	For completion of prior year budget plans			
22.4001	Available to finance new budget plans			
22.4001	Unobligated balance transferred to other accounts			
24.4002	Unobligated balance available, end of year:			
24.4003	For completion of prior year budget plans			
24.4003	Available to finance subsequent year budget plans			
39.0001	Budget authority	71,500		
40.0001	Budget authority:	3,180,371		
41.0001	Appropriation			
41.0001	Transferred to other accounts(-)	3,207,187		
43.0001	Appropriation (adjusted)	-26,816		
		3,180,371		

Procurement of W&ICV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1988

Obligations

Identification code	21-2033-0-1-053	1988 actual	1989 est.	1990 est.	1991 est.
Program by activities:					
Direct program:					
00.0101	Tracked combat vehicles	2,188,577	336,026	438,355	
00.0201	Weapons and other combat vehicles	127,731	5,906	12,276	
00.9101	Total direct program	2,316,308	341,932	450,631	
01.0101	Reimbursable program	244,005	112,760		
10.0001	Total	2,560,313	454,692	450,631	
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)	-228,716			
13.0001	Trust funds(-)	-120,822			
14.0001	Non-Federal sources(-)	-7,227			
21.4002	Unobligated balance available, start of year:		-905,323	-450,631	
21.4003	For completion of prior year budget plans		-71,500		
22.4001	Available to finance new budget plans		71,500		
22.4002	Unobligated balance transferred to other accounts				
24.4002	Unobligated balance available, end of year:				
24.4003	For completion of prior year budget plans	905,323	450,631		
	Available to finance subsequent year budget plans	71,500			
39.0001	Budget authority	3,180,371			
Budget authority:					
40.0001	Appropriation	3,207,187			
41.0001	Transferred to other accounts(-)	-26,816			
43.0001	Appropriation (adjusted)	3,180,371			

Procurement of WATCV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1989

Identification code	21-2033-0-1-05L	Budget Plan (amounts for PROCUREMENT actions programmed)			
		1988 actual	1989 est.	1990 est.	1991 est.
Program by activities:					
Direct program:					
00.0101	Tracked combat vehicles		2,652,614		
00.0201	Weapons and other combat vehicles		167,739		
00.9101	Total direct program		2,820,353		
01.0101	Reimbursable program		591,700		
10.0001	Total		3,412,053		
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)				
13.0001	Trust funds(-)				
21.4002	Unobligated balance available, start of year:		-442,600		
24.4002	For completion of prior year budget plans		-149,100		
24.4002	Unobligated balance available, end of year:				
24.4002	For completion of prior year budget plans				
39.0001	Budget authority		2,820,353		
Budget authority:					
40.0001	Appropriation				
40.0004	Reduction pursuant to P.L. 100-463		2,830,921		
41.0001	Transferred to other accounts(-)		-568		
43.0001	Appropriation (adjusted)		-10,000		
			2,820,353		

Procurement of W&ICV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1989

Identification code	21-2033-0-1-051, .	1988 actual	1989 est.	1990 est.	1991 est.
Obligations					
Program by activities:					
Direct program:					
00.0101	Tracked combat vehicles		1,839,656	417,465	395,493
00.0201	Weapons and other combat vehicles		127,684	26,102	13,953
00.9101	Total direct program		1,967,340	443,567	409,446
01.0101	Reimbursable program		591,700		
10.0001	Total		2,559,040	443,567	409,446
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)		-442,600		
13.0001	Trust funds(-)		-149,100		
21.4002	Unobligated balance available, start of year: For completion of prior year budget plans			-853,013	-409,446
24.4002	Unobligated balance available, end of year: For completion of prior year budget plans		853,013	409,446	
39.0001	Budget authority		2,820,353		
Budget authority:					
40.0001	Appropriation		2,830,921		
40.0004	Reduction pursuant to P.L. 100-463		-568		
41.0001	Transferred to other accounts(-)		-10,000		
43.0001	Appropriation (adjusted)		2,820,353		

Procurement of W&TCV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1990

Identification code	21-2033-0-1-05L	Budget Plan (amounts for PROCUREMENT actions programmed)			
		1988 actual	1989 est.	1990 est.	1991 est.
Program by activities:					
Direct program:					
00.0101	Tracked combat vehicles			2,583,803	
00.0201	Weapons and other combat vehicles			161,197	
00.9101	Total direct program			2,745,000	
01.0101	Reimbursable program			687,100	
10.0001	Total			3,432,100	
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)			-595,000	
13.0001	Trust funds(-)			-92,100	
21.4002	Unobligated balance available, start of year: For completion of prior year budget plans				
24.4002	Unobligated balance available, end of year: For completion of prior year budget plans				
40.0001	Budget authority (Appropriation)			2,745,000	

Procurement of WATCV, Army
Program and Financing (in thousands of dollars) FISCAL YEAR 1990

Obligations

Identification code	21-2033-0-1-051	1988 actual	1989 est.	1990 est.	1991 est.
Program by activities:					
Direct program:					
00.0101	Tracked combat vehicles			1,781,633	420,770
00.0201	Weapons and other combat vehicles			105,342	25,403
00.9101	Total direct program			1,886,975	446,173
01.0101	Reimbursable program			687,100	
10.0001	Total			2,574,075	446,173
Financing:					
Offsetting collections from:					
11.0001	Federal funds(-)			-595,000	
13.0001	Trust funds(-)			-92,100	
21.4002	Unobligated balance available, start of year:				-858,025
	For completion of prior year budget plans				
24.4002	Unobligated balance available, end of year:			858,025	411,852
	For completion of prior year budget plans				
40.0001	Budget authority (Appropriation)			2,745,000	

Procurement of WATCV Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1991

Identification code	21-2033-0-1-05	Budget Plan (amounts for PROCUREMENT actions programmed)		
		1988 actual	1989 est.	1990 est.
Program by activities:				
Direct program:				
00.0101	Tracked combat vehicles			2,843,749
00.0201	Weapons and other combat vehicles			158,351
00.9101	Total direct program			3,002,100
01.0101	Reimbursable program			687,100
10.0001	Total			3,689,200
Financing:				
Offsetting collections from:				
11.0001	Federal funds(-)			-595,000
13.0001	Trust funds(-)			-92,100
24.4002	Unobligated balance available, end of year:			
	For completion of prior year budget plans			
40.0001	Budget authority (Appropriation)			3,002,100

Procurement of WATCV, Army
Program and Financing (in Thousands of dollars) FISCAL YEAR 1991

		Obligations		
Identification code	21-2033-0-1-051.v	1988 actual	1989 est.	1990 est. 1991 est.
Program by activities:				
Direct program:				
00.0101	Tracked combat vehicles			1,958,985
00.0201	Weapons and other combat vehicles			120,835
00.9101	Total direct program			2,079,800
01.0101	Reimbursable program			687,100
10.0001	Total			2,766,900
Financing:				
Offsetting collections from:				
11.0001	Federal funds(-)			-595,000
13.0001	Trust funds(-)			-92,100
24.4002	Unobligated balance available, end of year:			922,300
	For completion of prior year budget plans			
40.0001	Budget authority (Appropriation)			3,002,100

PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 2

Budget Activity Justification

Activity 1 - Tracked Combat Vehicles

Activity 2 - Weapons and Other Combat Vehicles

Department of the Army Annual Budget Estimate JUSTIFICATION	Appropriation PROCUREMENT OF WEAPONS & TRACKED COMBAT VEHICLES, ARMY		FY1990/1991 Budget	
	(Thousands of Dollars)		Estimate	Estimate
Program or Budget Project Account	Actual	Estimate	FY 1990	FY 1991
Activity 1 - Tracked Combat Vehicles	FY 1988	FY 1989	FY 1990	FY 1991
Direct Budget Plan	\$2,962,958	\$2,652,614	\$2,583,803	\$2,843,749

Section 1 - PURPOSE AND SCOPE

Provide for procurement of tracked combat vehicles including Abrams Tanks; Bradley Fighting Vehicle System; training equipment; and associated equipment. The request also provides for modification kits, major assembly repair parts (including initial provisioning), and related production base support.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Tracked Combat Vehicles - The requested funding provides for procurement of the following tracked combat vehicles to improve readiness and meet modernization goals: Abrams Tank, Bradley Fighting Vehicle System, and Improved Recovery Vehicle. To further improve Army materiel readiness of high priority combat vehicles, funds are requested for the following modification programs: Enhancement of M109 Self-Propelled Howitzers, retrofit of Bradley Fighting Vehicle System with preplanned product improvements, and modification kits for the M1 Series tanks. Each major item included in this request is discussed below:

Bradley Fighting Vehicles Family (MYP) (P-1 Line Item No. 1):

(\$ in Thousands)	
FY 1990	FY 1991
\$576,417	\$648,299

These funds are requested for procurement of 600 Bradley Fighting Vehicles in FY90 and FY91. The Bradley is indispensable to the Mechanized Infantry and Cavalry forces and is designed to be compatible with the M1 Main Battle Tank. It provides improved firepower, cross-country mobility, and ballistic protection to infantry squads and cavalry sections. The

armament is designed to engage an array of enemy targets and will include a two-man turret employing a 25mm automatic cannon, the TOW 2 antitank guided missile system, as well as a 7.62mm coaxial machine gun, all utilizing an integrated day/night thermal sight. Interior configuration varies in the Cavalry Fighting Vehicle to allow for differences in crew size and stowage requirements. All vehicles procured will be A2 versions which incorporate survivability enhancements and other design changes.

Advance Procurement, Bradley Fighting Vehicles Family (MYP)
(P-1 Line Item No. 2):

(\$ in Thousands)	
FY 1990	FY 1991
\$58,600	\$33,000

These funds are requested for multiyear procurement of long-lead and advance economic order quantities of manufacturing items and components to support the production of Infantry and Cavalry Fighting Vehicles.

Bradley Fighting Vehicle System Training Devices (P-1 Line Item No. 3):

(\$ in Thousands)	
FY 1990	FY 1991
\$12,309	-0-

These funds provide the Bradley Fighting Vehicle System with simulators designed to train operators and mechanics. Gunners will be trained in gunnery skills in a realistic tactical scenario; organizational and Direct Support/General Support (DS/GS) maintenance personnel will be trained in periodic checks, troubleshooting and fault isolation skills, and repair procedures.

Recovery Vehicle Series (MYP) (P-1 Line Item No. 6):

(\$ in Thousands)	
FY 1990	FY 1991
-0-	\$85,975

These funds are requested for initiation of multiyear procurement of 78 M88A1E1 recovery vehicles in FY91 to provide a battlefield recovery and evacuation capability to Abram Tank units. The configuration has been upgraded to accommodate the M1 Main Battle Tank.

M1 Abrams Tank Training Devices (P-1 Line Item No. 8):

(\$ in Thousands)	
FY 1990	FY 1991
\$12,886	\$14,530

These funds are requested for procurement of Tank Driver Trainers.

M1 Abrams Tank Series (MYP) (P-1 Line Item No. 9):

(\$ in Thousands)	
FY 1990	FY 1991
\$1,033,735	\$811,311

These funds are requested to procure 448 M1A1 tanks in FY90 and 261 M1A2 Tanks in FY91. The Abrams Tank in M1A1 and M1A2 configuration will replace the M60 and M1 tanks in selected units and allow for continued modernization of the Army tank fleet. It has significantly improved survivability over current tanks providing better armor protection and compartmentalization of ammunition and fuel. Its 1500 hp turbine engine and improved suspension system provide unprecedented mobility and stability as a weapons platform. The Abrams counters the enemy threat now and has growth potential to be effective well into the 1990's. The M1A2 possesses significant operational and survivability improvements over the M1A1 tank.

Advance Procurement, M1 Abrams Tank Series (MYP):
(P-1 Line Item No. 10)

(\$ in Thousands)	
FY 1990	FY 1991
\$245,000	\$368,300

These funds are requested for procurement of long-lead manufacturing items, components, and government-furnished equipment to support the multiyear procurement of M1A2 tanks in FY91 and beyond.

Bradley Fighting Vehicle System Series (Mod) (P-1 Line Item No. 12):

(\$ in Thousands)	
FY 1990	FY 1991
\$84,098	\$109,264

These funds are requested to continue retrofit of BFVS Preplanned Product Improvements which were introduced in FY85 and survivability improvements to the Infantry Fighting Vehicle (M2A1) and Cavalry Fighting Vehicle (M3A1) configurations.

Howitzer, Medium, SP, FT, 155 mm: M109 Series (Mod) (P-1 Line Item No. 13): (\$ in Thousands)
 FY 1990 FY 1991
 \$75,477 \$179,574

These funds are requested for procurement of Howitzer Improvement Program (HIP) kits. These modifications are designed to improve the readiness and survivability of M109 series howitzers.

M1 Abrams Tank (Mod) (P-1 Line Item No. 15): (\$ in Thousands)
 FY 1990 FY 1991
 \$42,328 \$141,963

These funds are requested for mine roller adapter kits, laser protection for crew, optical performance enhancements, auxiliary power units and maintainability enhancements.

9MM (P-1 Line Item No. 16): (\$ in Thousands)
 FY 1990 FY 1991
 \$491 \$492

These funds are requested to procure equipment for a classified project.

Host Nation Support (P-1 Line Item No. 17): (\$ in Thousands)
 FY 1990 FY 1991
 \$53,981 -0-

These funds are requested to procure German-manufactured crew served weapons to equip 100 German Army Reserve units which will provide dedicated security and combat support/combat service support to US Forces under the terms and conditions of the 1982 US-German Wartime Host Nation Support Agreement. Units are critical to the deployment and sustainment of the US 10 Division D-Day Force and associated Flying Squadrons.

Spares and Repair Parts (TCV-WTCV) (P-1 Line Item No. 18):

(\$ in Thousands)
FY 1990 FY 1991
\$324,956 \$380,527

These funds are requested for procurement of initial and replenishment spares and repair parts related to tracked combat vehicles. Initial spares are requested to support the following systems:

System	FY 1990	FY 1991
M1 Abrams Tank	\$79,892	\$94,180
Bradley Fighting Vehicle System	14,550	10,730
Howitzer, Med, M109, (Mod)	1,196	1,083
Recovery Vehicle, M88	2,996	3,544
TOTAL	\$98,634	\$109,537

Replenishment spares and repair parts are requested in the amount of \$226,322 for FY 1990 and \$270,990 for FY 1991.

Items Less Than \$2 Million (TCV-WTCV) (P-1 Line Item No. 19):

(\$ in Thousands)
FY 1990 FY 1991
\$1,684 \$923

Funds are requested for procurement of maintenance and repair equipment for tracked combat vehicles. Equipment to be procured includes shop sets and tool kits.

Production Base Support (TCV-WTCV) (P-1 Line Item No. 20):

(\$ in Thousands)
 FY 1990 FY 1991
\$55,442 \$59,618

These funds are requested to rehabilitate/replace Industrial Plant Equipment at tank and spare parts production facilities; to layaway industrial equipment excess to current requirements (closure of Detroit Arsenal Tank Plant); to correct EPA/OSHA, fire, and safety deficiencies; to perform critical facilities improvements to government facilities; and to provide replacement and initial depot maintenance plant equipment and also depot modification equipment, particularly for the M1 Tank and the Bradley Fighting Vehicle System.

Project #	Title	(\$ in Thousands) FY 1990	FY 1991
PROVISION OF INDUSTRIAL FACILITIES (PIF)			
49x3002	Omnibus Concept/Final Design of Construction Projects	500	200
49x6037	Production Support for Lima Army Tank Plant	3,853	3,710
49x6040	Omnibus Production Support and Equipment Replacement at M1 Production Facilities	3,882	2,236
49x6042	Modernization Central Heating Plant Detroit Arsenal	3,100	3,380
19x8173	Production Support at Stratford Army Engine Plant	4,000	2,000
TOTAL PROVISION OF INDUSTRIAL FACILITIES (TCV)		15,335	11,526

LAYAWAY OF INDUSTRIAL FACILITIES (LIF)			
4Xx4281	Omnibus Packaging, Handling and Transportation of Excess Equipment	100	100
4Xx4281	Closure of the Detroit Army Tank Plant (current production will continue at the Lima Army Tank Plant)	31,449	39,688

DEPOT MAINTENANCE PLANT EQUIPMENT (DMPE)			
G9x0020	Equipment Replacement at Mainz Army Depot	0	2,402
G9x0053	Omnibus Support of Miscellaneous Tracked Combat Vehicle	3,185	1,600
G9x0153	Omnibus Support of M1 Tank	5,373	0
G9x0253	Omnibus Support of Bradley Fighting Vehicle	0	4,302
TOTAL DEPOT MAINTENANCE PLANT EQUIPMENT (TCV)		8,558	8,304

Regional Maintenance Training Sites-Equip (P-1 Line Item No. 21):

(\$ in Thousands)	
FY 1990	FY 1991
\$6,399	\$9,973

These funds will procure system components (e.g., M1 engines, M1 transmissions, M60A3 engines) to support training at Regional Maintenance Training Sites. System component requirements are as specified in Programs-of-Instruction. These funds will outfit all nineteen Regional Maintenance Training Sites to minimum Program-of-Instructions standards.

Department of the Army		Appropriation		FY1990/1991	
Annual Budget Estimate		PROCUREMENT OF WEAPONS & TRACKED COMBAT		Budget	
JUSTIFICATION		VEHICLES, ARMY			
PROGRAM OR BUDGET PROJECT ACCOUNT		(Thousands of Dollars)			
Activity 2 - Weapons and Other Combat		Actual	Estimate	Estimate	Estimate
		FY 1988	FY 1989	FY 1990	FY 1991
Direct Budget Plan		\$145,913	\$167,739	\$161,197	\$158,351

Section 1 - PURPOSE AND SCOPE

Provides for procurement of weapons and other combat vehicles including towed howitzers, mortars, machine guns, small arms, and associated equipment. The request also provides for modification kits, procurement of depot repairable major assembly parts (including initial provisioning), related production base support, and depot maintenance plant equipment.

Section 2 - JUSTIFICATION OF FUNDS REQUESTED

Weapons and Other Combat Vehicles - The requested funding level provides for continued procurement of the Vehicle Rapid Fire Weapon System (VRFWS) weapons, VRFWS advance procurement, Smoke Grenade Launcher, M119 Light Howitzer, and the MK19 Grenade Launcher. Funding is also requested for the procurement of the 9mm Personal Defense Weapon, Squad Automatic Weapon (SAW), M60 Machine Gun, 120mm Mortar, M16 Rifle, SOF and Sniper Weapon Systems. Each of the items included in this request is discussed below:

Howitzer, Light, Towed, 105MM M119 (P-1 Line Item No. 22):

(\$ in Thousands)	
FY 1990	FY 1991
\$24,631	\$25,748

These funds are requested for the procurement of 75 howitzers in FY90 and 79 in FY91. This light howitzer provides increased range and lethality for the light divisions over that of the older 105mm models. In FY90, production will be entirely in the U.S. arsenal system, completing transition from Royal Ordnance, U.K.

Machine Gun, 7.62mm, M60 (P-1 Line Item No. 23):

(\$ in Thousands)	
FY 1990	FY 1991
\$2,965	\$2,953

These funds are requested for the procurement of 580 machine guns in FY90 and 597 machine guns in FY91. The M60 is a lightweight, air cooled, gas operated link fed 7.62 machine gun. It features a quick change barrel, built in bipod, a rate of fire of 550 rounds per minute and a maximum effective range of 1100 meters.

SOF Weapons (P-1 Line Item No. 24):

(\$ in Thousands)	
FY 1990	FY 1991
\$1,892	\$1,949

These funds are requested for the procurement of a Special Operations Force weapon pool for training purposes. In addition, funds will procure a Ranger anti-armor, anti-personnel weapon system as a replacement for the M-67 recoilless rifle.

Machine Gun, 5.56mm (SAW) (P-1 Line Item No. 25):

(\$ in Thousands)	
FY 1990	FY 1991
\$8,683	\$9,076

These funds are requested for the procurement of 5932 Squad Automatic Weapons in FY90 and 5930 in FY91. This lightweight machine gun delivers a high rate of sustained fire and has increased range which will greatly enhance the effectiveness of the infantry rifle squad.

Grenade Launcher, Auto, 40mm, MK 19-3 (P-1 Line Item No. 26):

(\$ in Thousands)	
FY 1990	FY 1991
\$19,736	\$19,902

These funds are requested for the procurement of 1476 MK 19-3 Grenade Launchers in FY90 and 1418 in FY91. This grenade machine gun delivers high explosive anti-personnel and anti-light armor grenades to 2200 meters which greatly enhances the firepower of the infantry platoon and combat service support units.

Launcher, Smoke Grenade (P-1 Line Item No. 27):

(\$ in Thousands)	
FY 1990	FY 1991
\$1,594	\$1,673

These funds are requested to continue procurement of protective smoke systems for combat vehicles. The launcher provides near instantaneous smoke protection and is a defensive aid against antitank missiles. Funding requested is to procure 2627 in FY90 and 2656 in FY91.

Mortar, 120MM (P-1 Line Item No. 28):

(\$ in Thousands)	
FY 1990	FY 1991
\$10,854	\$11,909

These funds are requested to continue procurement of the 120mm Mortar. The 120mm Mortar provides significantly improved growth potential, standardization, and effectiveness compared to the World War II vintage 4.2 inch mortar. These funds procure 167 mortars in FY90 and 188 in FY91.

M16 Rifle (P-1 Line Item No. 29):

(\$ in Thousands)	
FY 1990	FY 1991
\$14,179	\$14,286

These funds are requested for procurement of 32,800 rifles in FY90 and 32,675 in FY91. The M16A2, an improved version, will be placed in the hands of the front line combat soldiers. The M16A2 incorporates improvements in sights, pistol grip, stock, and overall combat effectiveness. The US Marine Corps is also procuring the M16A2 rifle.

Sniper Weapon System (P-1 Line Item No. 30):

(\$ in Thousands)	
FY 1990	FY 1991
\$3,770	-0-

These funds are requested for procurement of 1010 Sniper Weapon Systems in FY90. The Sniper Weapon System provides long range, precision firepower for Special Operations Forces and Infantry battalions.

Personal Defense Weapon, 9MM (P-1 Line Item No. 31):

(\$ in Thousands)	
FY 1990	FY 1991
\$7,539	\$7,750

These funds are requested for procurement of 34,696 9mm handguns in FY90 and 35,101 in FY91. FY85 was the first year of a ten year Army procurement of new 9mm handguns to standardize the inventory and replace the M1911A caliber .45 handguns and .38 revolvers. The 9mm handgun also enhances NATO Rationalization, Standardization, and Interoperability (RSI) efforts.

Vehicle Rapid Fire Weapon System-Bushmaster (MYP) (P-1 Line Item No. 32):

(\$ in Thousands)	
FY 1990	FY 1991
\$18,719	\$20,637

These funds are requested for the procurement of 560 25mm Vehicle Rapid Fire Weapon Systems in FY90 and 480 in FY91 (beginning of a four-year multi-year contract). This weapon system, also known as the Bushmaster, is the primary armament for the Bradley Fighting Vehicle. FY90 is the last year of the current five-year multi-year procurement.

Advance Procurement, Vehicle Rapid Fire Weapon System (Bushmaster)(MYP)
(P-1 Line Item No. 33):

(\$ in Thousands)	
FY 1990	FY 1991
-0-	\$2,000

These funds are requested for long-lead castings, forgings, and economic order quantity materials to support the Vehicle Rapid Fire Weapon System.

M16A1 Rifle Mods (P-1 Line Item No. 34):

(\$ in Thousands)	
FY 1990	FY 1991
\$3,990	\$4,433

These funds are requested to support the Army rebuild program for the M16A1 rifle. M16A1 rifles will be rebuilt to the Army standard M16A2 configuration.

Modifications Less Than \$2.0 Million (WOCV-WTCV) (P-1 Line Item No. 35):

(\$ in Thousands)	
FY 1990	FY 1991
\$483	\$487

These funds are requested for minor modifications of weapons and other combat vehicles with a cost less than \$2.0 Million. Included are minor modifications to the M198 Howitzer.

Spares and Repair Parts (WOCV-WTCV) (P-1 Line Item No. 36):

(\$ in Thousands)	
FY 1990	FY 1991
\$26,991	\$14,271

These funds are requested for initial and replenishment spares and repair parts related to weapons and other combat vehicles. Initial spares are requested to support the following systems:

System	FY 1990	FY 1991
Howitzer, Light, Towed, 105mm, M119	\$107	\$ 98
Mortar, 120mm	498	583
TOTAL	\$605	\$681

Replenishment spares and repair parts costing \$26,386 are requested for FY90 and \$13,590 for FY 91.

Items Less than \$2.0 Million (WOCV-WTCV) (P-1 Line Item No. 37):

(\$ in Thousands)	
FY 1990	FY 1991
\$1,035	\$1,931

These funds are requested for procurement of shop sets and tool sets for maintenance and repair of weapons and other combat vehicles.

Production Base Support (WOCV-WTCV) (P-1 Line Item No. 38):

(\$ in Thousands)
FY 1990 FY 1991
\$14,136 \$19,346

These funds are requested to continue productivity improvements at the manufacturing facilities at Watervliet Arsenal and Rock Island Arsenal and in production test facilities in support of weapon systems; to provide annual support of the production test facilities; to layaway industrial equipment excess to production requirements; and to provide initial and replacement depot maintenance plant equipment; supported are the Product Improved Vulcan Air Defense System, Lightweight Air Defense System; M1 Tank; Bradley Fighting Vehicle System; M113 family of vehicles; cannons--105, 120 and 155 MM; 30 and 40 MM Air Defense Systems; M198 and M109 Howitzers; MK19 grenade launcher; M16 rifle; and 120 MM mortar.

PROJECT #	TITLE	(\$ in Thousands) FY 1990	FY1991
PROVISION OF INDUSTRIAL FACILITIES (PIF)			
09x5263	Support of Production Test Facilities at Aberdeen Proving Grounds	800	1,500
09x5268	Support of Production Test Facilities at Yuma Proving Grounds	1,399	1,500
69x6986	Support of Production Test Facilities at Ethan Allen Firing Range	244	500
69x8224	Production Test Equipment at Armament Research & Development Center	405	960
69x8824	All Angle Simulator Rock Island Arsenal	2,856	3,824
69x8930	Group Technology Rock Island Arsenal	1,001	0
69x9035	Initial Production Facilities for Howitzer Improvement Program	0	1,068
Gun Mounts			
69x9044	Computer Aided Process Engineer Rock Island Arsenal	1,952	0
69x9045	Manufacturing Planning & Integration System Rock Island Arsenal	2,740	0
69x9048	Computer Integrated Manufacturing Watervliet Arsenal	2,151	5,593
69x9104	Master Scheduling/Control Integration Rock Island Arsenal	0	3,478
	TOTAL PROVISION OF INDUSTRIAL FACILITIES (WOCV)	13,548	18,423

LAYAWAY OF INDUSTRIAL FACILITIES (LIP)

69X7666	Omnibus Packing, Handling and Transportation of Excess Equipment	588	481
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DEPOT MAINTENANCE PLANT EQUIPMENT (DMPE)

69x0054	Omnibus Support for WOCV	0	442
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PROCUREMENT OF WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 3

Comparison of Program Requirements and Financing

PROCUREMENT, WEAPONS AND TRACKED COMBAT VEHICLES, ARMY

Section 3

Comparison of Programing Requirements and Financing

Comparison of FY 1989 program requirements as reflected in the amended FY 1988/1989 Biennial Budget with FY 1989 program requirements as shown in the FY 1990/1991 Biennial Budget.

Comparison of FY 1989 financing as reflected in the amended FY 1988/1989 Biennial Budget with FY 1989 financing as shown in the FY 1990/1991 Biennial Budget.

Comparison of FY 1988 program requirements as reflected in the amended FY 1988/1989 Biennial Budget with FY 1988 program requirements as shown in the FY 1990/1991 Biennial Budget.

Comparison of FY 1988 financing as reflected in the amended FY 1988/1989 Biennial Budget with FY 1988 financing as shown in the FY 1990/1991 Biennial Budget.

COMPARISON OF FY 1989 PROGRAM REQUIREMENTS
AS REFLECTED IN THE AMENDED FY 1988/1989 BIENNIAL BUDGET
WITH THE FY 1989 PROGRAM REQUIREMENTS AS SHOWN
IN THE FY 1990/1991 BIENNIAL BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation	FY 1989 Requirements Per Amended FY 1988/1989 Biennial Budget	FY 1989 Requirements Per FY 1990/1991 Biennial Budget	Increase (+) or Decrease (-)
Procurement of Weapons and Combat Vehicles, Army			
Activity 1 - Tracked Combat Vehicles	2,797,267	2,652,614	-144,653
Activity 2 - Weapons and Other Combat Vehicles	163,333	167,739	+4,406
TOTAL	2,960,600	2,820,353	-140,247

EXPLANATION BY ACTIVITY

Activity 1 - Tracked Combat Vehicles (-\$144,653) - The net decrease is due to Congressional adjustment to Bradley Fighting Vehicle (-\$39,950), Recovery Vehicle (-\$5,000), M1 Tank (+\$35,000), M60 Tank (-\$14,500), Carrier Mods (-\$5,800), Bradley Fighting Vehicle Mods (-\$17,900), Howitzer 155mm (-\$4,500), 105mm Tank Gun (-\$9,900), Spares (-\$60,000), Production Base Support (-\$12,129) and an undistributed reduction (-\$568) plus reprogramming of inflation savings (-\$9,406).

Activity 2 - Weapons and Other Combat Vehicles (+\$4,406) - The net increase is due to Congressional action on Launcher Smoke (+\$5,000) and reprogramming of inflation savings (-\$594).

COMPARISON OF FY 1989 FINANCING AS REFLECTED
IN THE AMENDED FY 1988/1989 BIENNIAL BUDGET WITH FY 1989 FINANCING
AS SHOWN IN FY 1990/1991 BIENNIAL BUDGET

(In Thousands of Dollars)

	FY 1989 Financing Per Amended FY 1988/1989 Biennial Budget	FY 1989 Financing Per FY 1990/1991 Biennial Budget	FY 1989 Increase (+) or Decrease (-)
Appropriation			
Procurement of Weapons and Tracked			
Combat Vehicles, Army			
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Program Requirements (Total)	3,283,600	3,412,053	+128,453
Program Requirements (Service Account)	(2,960,600)	(2,820,353)	(-140,247)
Program Requirements (Reimbursable)	(323,000)	(591,700)	(+268,700)
Less:			
Anticipated reimbursements	-323,000	-591,700	-268,700
Unobligated balance available from prior year to finance new budget plans		-149,100	-149,100
Add:			
Unobligated balance transferred to other accounts		+149,100	+149,100

BUDGET AUTHORITY
Appropriation

	2,960,600	2,820,353	-140,247
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EXPLANATION:

The reimbursable program increased because actual orders were greater than anticipated.
The unobligated balance available from prior year and unobligated balance transferred to
other accounts resulted from FY 1989 Congressional rescissions of \$77,600, from FY 1987 and \$71,500
from FY 1988.

COMPARISON OF FY 1988 PROGRAM REQUIREMENTS
AS REFLECTED IN THE AMENDED FY 1988/1989 BIENNIAL BUDGET
WITH THE FY 1988 PROGRAM REQUIREMENTS AS SHOWN
IN THE FY 1990/1991 BIENNIAL BUDGET
SUMMARY OF REQUIREMENTS (In Thousands of Dollars)

Appropriation	FY 1988 Requirements Per Amended FY 1988/1989 Biennial Budget	FY 1988 Requirements Per FY 1990/1991 Biennial Budget	FY 1988 Increase (+) or Decrease (-)
Procurement of Weapons and Combat Vehicles, Army			
Activity 1 - Tracked Combat Vehicles	3,062,081	2,962,958	-99,123
Activity 2 - Weapons and Other Combat Vehicles	<u>145,106</u>	<u>145,913</u>	<u>+807</u>
TOTAL	3,207,187	3,108,871	-98,316

EXPLANATION BY ACTIVITY

Activity 1 - Tracked Combat Vehicles (-\$99,123) - The decrease is due to a FY 1989 Congressional rescission (-\$71,500) and Army reprogramings for Military Pay (-\$21,911) and Readiness (-\$465) in addition to below threshold reprogramings (-\$5,247).

Activity 2 - Weapons and Other Combat Vehicles (+\$807) - The net change is due to an Army reprogramming for Military Pay (-\$4,440) and below threshold reprogramings (+\$5,247).

COMPARISON OF FY 1988 FINANCING AS REFLECTED
IN THE AMENDED FY 1988/1989 BIENNIAL BUDGET WITH FY 1989 FINANCING
AS SHOWN IN FY 1990/1991 BIENNIAL BUDGET

	(In Thousands of Dollars)			
	FY 1988 Financing Per Amended FY 1988/1989 Biennial Budget	FY 1988 Financing Per FY 1990/1991 Biennial Budget	FY 1988 Increase (+) or Decrease (-)	
Appropriation				
Procurement of Weapons and Combat and Tracked Combat Vehicles, Army				
Program Requirements (Total)	3,537,087	3,465,636	-71,451	
Program Requirements (Service Account)	(3,207,187)	(3,108,871)	(-98,316)	
Program Requirements (Reimbursable)	(329,900)	(356,765)	(+26,865)	
Less:				
Anticipated reimbursements	-329,900	-356,765	-26,865	
Unobligated balance available from prior year to finance new budget plans	-173,400	-173,400	0	
Reprogramming from prior year budget plans		-148,733	-148,733	
Add:				
Unobligated balance transferred to other accounts	+59,700	+120,693	+60,993	
Unobligated balance available to finance subsequent year budget plans		+149,100	+149,100	
Unobligated balance lapsing		+10,140	+10,140	
BUDGET AUTHORITY				
Appropriation	3,093,487	3,066,671	-26,816	

EXPLANATION:

The reimbursable program (offsetting collection) increased because of unanticipated customer requirements. The reprogramming from/to prior year plan was adjusted as follows: FY 1986 reprogramming (-\$62,593), FY 1987 rescission in FY 1989 Appropriation Act (-\$77,600), FY 1987 SOF Modification reprogramming (+\$1,600) not approved by Congress and the unobligated FY 1986 balance lapsing of -\$10,140.

The unobligated balance transferred to other accounts resulted from transfer of +\$62,593 of FY 1986 funds and the FY 1987 SOF Modifications reprogramming of -\$1,600 which was denied by Congress in FY 1989.

The unobligated balance available to finance subsequent year budget plans resulted from FY 1989 Congressional rescissions of \$77,600 from FY 1987 and \$71,500 from FY 1988.